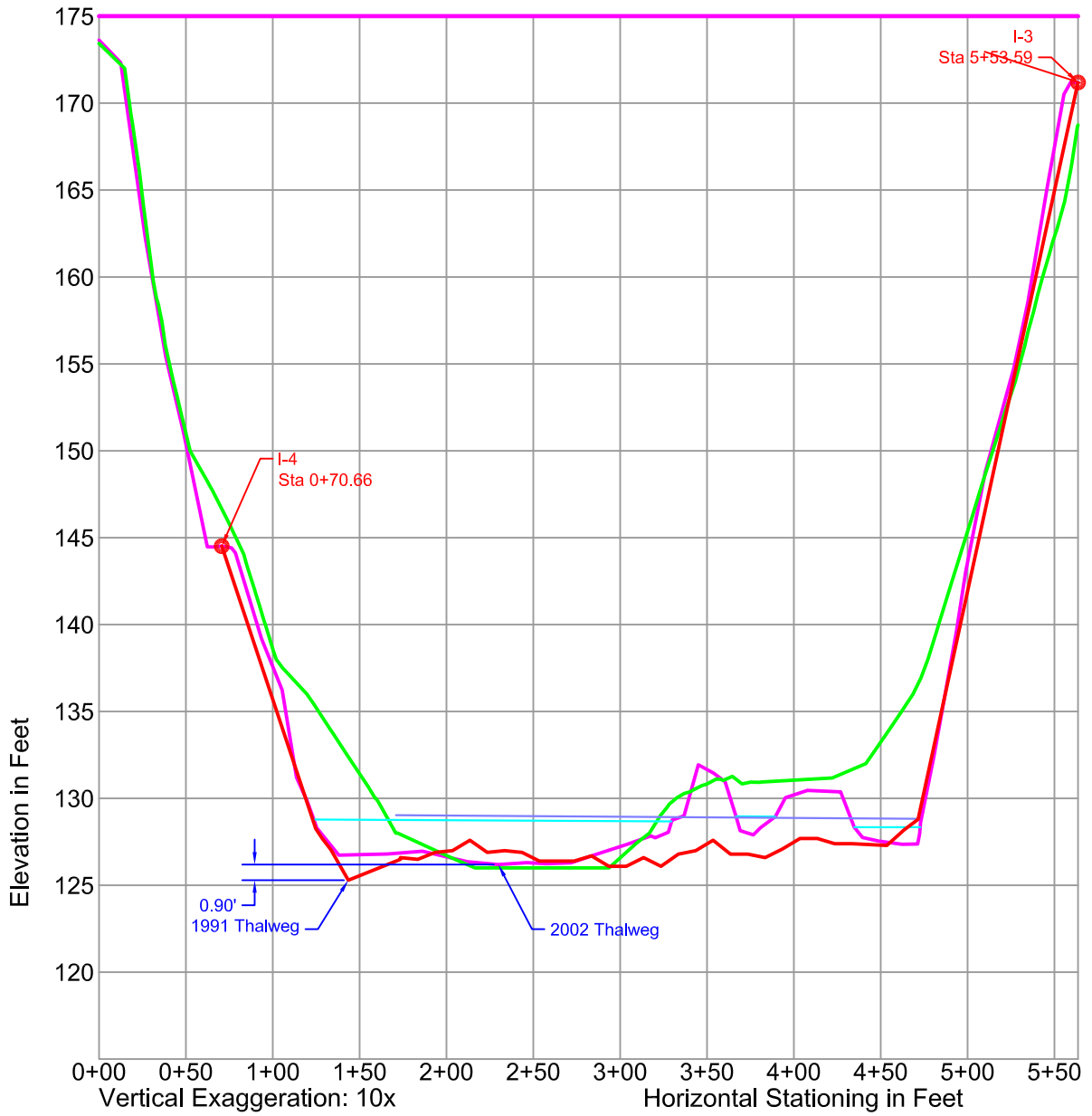

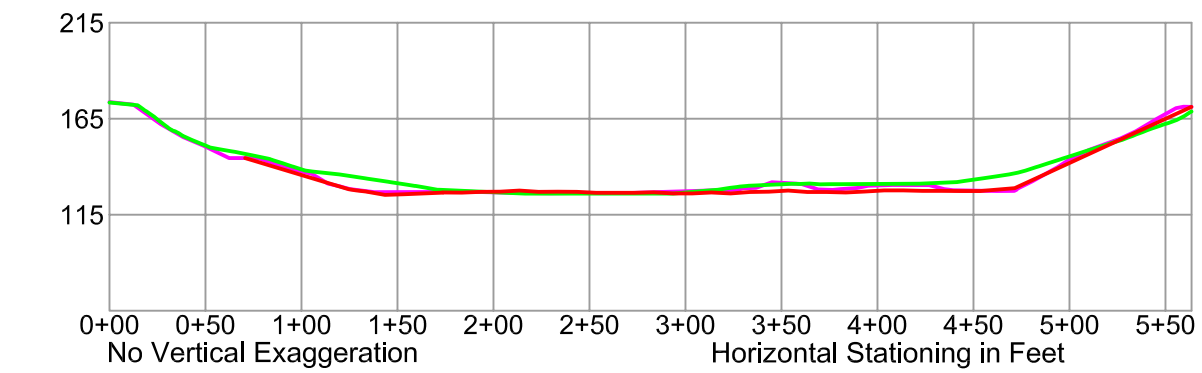

LEGEND

- 1991 IFIM Surveys
- 1997 2-foot contour mapping
- August 2002 Survey
- 1991 Water Surface
- 2002 Water Surface

CONTROL POINT DATA

I-4 (concrete and pipe)	I-3 (concrete and pipe)
Northing: 2313905.945	Northing: 2314380.145
Easting: 6686082.401	Easting: 6685947.825
Elevation:144.51'	Elevation:171.19'

TRANSECT DATA

Length (2002): 563.59'	Azimuth: 15°48'2"
Length (1991): 492.89'	Azimuth: 15°48'2"

GAGE DATA (from USGS)

Oroville Gage:
7/10/92: 1020cfs
8/15/02: 837cfs
Gridley Gage:
7/10/92: 1160cfs
8/15/02: Not Available

Notes:

1) Land surveys, depth soundings, and velocities for the 1992 IFIM surveys were conducted on July 10, 1992.
2) Assumed elevations for the control points were converted to actual elevations by a level survey performed by DWR-Land and Right-of-Way in June 1996.
3) The 1997 cross-section was generated from 2-foot contour topographic mapping from the U.S. Army Corps of Engineers (COE) Comprehensive Study. The actual cross-section was generated using Land Developer and AutoCad software.
4) The 2002 cross-section was surveyed in June 2002. Coordinates for the IFIM control points were generated using a RTK GPS survey with a Trimble backpack 4700 receiver. Distances and elevations were measured along section with conventional total station surveying equipment.
5) Elevations are referenced to the National Geodetic Vertical Datum of 1929 (NGVD29).

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

Oroville Facilities Relicensing
FERC Project No. 2100

SP--G2 -- Task 3
Appendix C -- Plate 16
Channel Changes -- 1992 - 2002
Auditorium Riffle -- Transect 3
RM 65.77

Prepared by:	Date	Filename
JHM -- DWR	8/20/ 04	CrossSectionComparisons--IFIM--jhm-

Filename:N:\RAID1\Geo\EMPLOYEES\mulder\FeatherRiver\Task 3 IFIM Cross Sections\CrossSectionComparisons--IFIM--jhm--2004-08-15.dwg
Layout Name:AUDITORIUM3 Plot Time: Aug 20, 2004 - 8:51am